

NAME ► DATE ►

1. Which best describes what happens to water vapor as it rises higher and higher in the sky?

- A. It cools and continues to rise
 - B. It cools and may form clouds
 - C. It warms and condenses
 - D. It warms and moves over land
-

2. It's sunny and hot at the beach. Katie was swimming but is now reading a book in the shade. Her swimsuit is dry. Where did the water go?

- A. It condensed on the cool sand
 - B. It condensed on the wet towel
 - C. It evaporated into the dry sand
 - D. It evaporated into the warm air
-

3. Dorie is measuring a puddle on the sidewalk. Every hour she draws around the outside of the puddle with chalk. What evidence is she collecting?

- A. How clean the water is
- B. How water changes cement sidewalks
- C. Kinds of organisms living in the water
- D. The size of the puddle over time

4. It is a sunny, hot day. Make a prediction. What is happening to the water in the puddle?

- A. It is changing to a gas
- B. It is changing to a liquid.
- C. It is changing to a solid.
- D. There is no way to predict.

5. What energy source is changing Dorie's puddle?

- A. Hydro-electric energy
- B. Kinetic energy
- C. Potential energy
- D. Solar energy

6. Which of these is most responsible for our weather?

- A. Earth's surface
 - B. Bodies of water
 - C. Our sun
 - D. The mountains
-

7. Which of these create wind?

- A. Differences in cloud cover over water
 - B. Heating and cooling rates of soil and water
 - C. Evaporation, condensation and precipitation
 - D. Rate and amount of rainfall over land
-

8. What is the sun's job in the water cycle?

- A. Grow flowers and trees
 - B. Make rain clouds larger
 - C. Protect the land from storms
 - D. Warm the water and the land
-

9. Early this morning Jayna saw a large puddle on the playground. By lunchtime the puddle was a lot smaller. Which of these describe the day's weather?

- A. 1
- B. 2
- C. 3
- D. 4

8/03	8/03	8/03	8/03
Today is warm	Cloud cover is	There is light rain	There are no
with heavy rain.	thick today.	and no wind.	clouds in the sky.
The temperature	The temperature	The temperature	The temperature
is 92° F .	is 44° F .	is 53° F .	is 89° F .
1.	2.	3.	4.

10. Kayla and JoJo collected data on average temperatures of cities around the world. They want to see if temperature and latitude are related. How can they set up a graph to organize the data?

- A. Make a bar graph comparing cities to temperatures
- B. Make a bar graph comparing temperature to latitude
- C. Make a bar graph of temperatures
- D. Make a bar graph of latitudes

11. How do scientists use the weight of air to predict rain?

- A. Record changes in air pressure
 - B. Record changes in fast moving clouds
 - C. Record changes in wind direction
 - D. Record changes in wind speed
-

12. What happens when water droplets inside a cloud become too big for the cloud to hold?

- A. Condensation
 - B. Evaporation
 - C. High winds
 - D. Precipitation
-

13. Doug is working like a scientist to identify clouds. Which of these are most important when identifying clouds?

- A. 1, 2
- B. 2, 3
- C. 3, 4
- D. 4, 1

8/09	8/09	8/09	8/09
air temperature	how high the	shape of the	wind direction
	clouds are in the	clouds	
	sky		
1.	2.	3.	4.

14. Ann Marie keeps careful records of daily cloud cover. How might Ann Marie find out more about clouds?

- A. Talk with a geologist
 - B. Talk with a meteorologist
 - C. Talk with a biologist
 - D. Talk with a zoologist
-

15. Matta lives in a city near a large lake. How might the lake affect daily temperature?

- A. Cooler temperatures in winter
- C. No effect on daily temperatures
- B. Warmer temperatures in summer
- D. Warmer temperatures in winter

16. Which cloud type usually signals fair weather but can turn into thunderclouds?

- A. Fog
 - B. Cirrus
 - C. Cumulus
 - D. Stratus
-

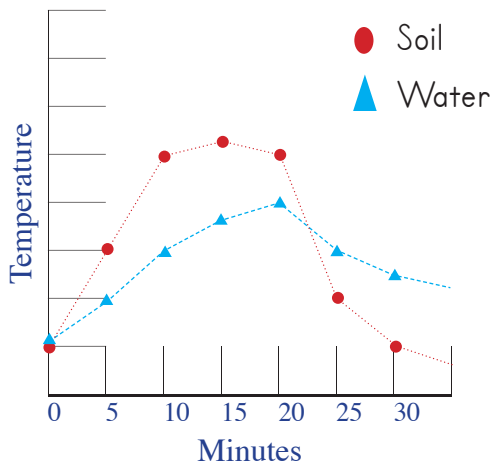
17. What do you expect to follow this high pressure system?

Today's Forecast

Light rain
74° F

A high pressure system will move over Wake County by noon tomorrow.

- A. Clouds
 - B. Rain
 - C. Snow
 - D. Sunshine
-



18. Which best describes the data on the graph?

- A. The water got warmer than the soil
 - B. The water cooled off faster than the soil
 - C. Water stays warm longer than soil
 - D. Water and soil heat at the same rate
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19. Lee and her family are walking barefoot on the beach. The sand feels hot and the water feels cool. Why?

- A. Sand at the beach is always warm
- B. Sand sticks to our feet making our feet hot
- C. The sun warms soil more quickly than water
- D. The ocean is too big to have warm water

City and Country	Latitude	Temperature
Kinsasha, Congo	4° S	87° F
Lagos, Nigeria	6° N	88° F
London, England	51° N	44° F
Reykjavik, Iceland	64° N	35° F
Rio de Janeiro, Brazil	23° S	84° F

Use the data table to answer questions number 20 and 21.

20. In what order are the data listed?

- A. Alphabetical by city
- B. Alphabetical by country
- C. Latitude from equator north
- D. Temperature from highest to lowest

21. Which country is recording the warmest temperature?

- A. Brazil
- B. Congo
- C. England
- D. Nigeria

22. A mountain climber is climbing a high mountain. How does the temperature change as the climber moves up the mountain?

- A. No temperature change
- B. No way to predict
- C. Temperature gets cooler
- D. Temperature gets warmer

23. Hawaii has warm temperatures every day of the year. Which of these is a reason for warm daily temperatures?

- A. Active volcanoes
- C. Palm trees
- B. Tropical latitude
- D. Warm beaches

24. It's a hot summer day. Ron has a cold glass of milk. Drops of water are on the outside of the glass. Where did the water come from?

- A. Dew forming on the cool table
 - B. Ron's hand touching the cool glass
 - C. Warm air touching the cool glass
 - D. Warm water in the cool milk
-

25. Adrian recorded the temperature daily for 15 days. How can Adrian find the average temperature recorded?

- A. Add then divide
 - B. Add then subtract
 - C. Divide then multiply
 - D. Multiply then divide
-

26. How do clouds form?

- A. Air pressure forms clouds
 - B. Warm moist air meets cooler air
 - C. Wind direction forms clouds
 - D. Wind speed forms clouds
-

27. How might the forecasted wind direction change today's weather?

Today's Forecast

Temperature: 55° F

Cloud Cover: Rain

Wind: Increasing high winds
from the north

- A. More cloud cover
 - B. Rain will stop
 - C. Temperature will likely fall
 - D. Temperature will likely rise
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28. Because the air at the top of a high mountain is thin, it has less oxygen. How does thinner air affect temperature?

- A. Thin air holds less heat, expect cold temperatures
- B. Thin air holds more heat, expect warm temperatures
- C. Thin air brings colder temperature only if snowy
- D. Mountain air is closer to the sun, expect warm temperatures